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Footwear sizing — In-shoe measurement —

Part 1: Shoe length

Pointures des chaussures — Mesurage interne —

Partie 1: Longueur de la chaussure

Reference number
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Foreword

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 137, *Footwear sizing designations and marking systems,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 309, *Footwear,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 19410 series can be found on the ISO website.

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Footwear sizing — In-shoe measurement —

Part 1: Shoe length

1 Scope

This document specifies a method for measuring the effective shoe length to accommodate the foot.

This document is not applicable to heel and toe open shoes (example: sandals).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/TS 19407:2015, *Footwear — Sizing — Conversion of sizing systems*

ISO/TS 19408, *Footwear — Sizing — Vocabulary and terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TS 19407 and ISO/TS 19408 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Principle

A toe sensor of specified dimensions is inserted into the toe of the footwear and a second sensor located against the inside of the maximum heel swell of the back curve. The distance between the two sensors measured along the insole surface, or close to it, is taken as the effective length of the footwear. The effective length value can be compared with ISO/TS 19407 to determine the nominal shoe size.

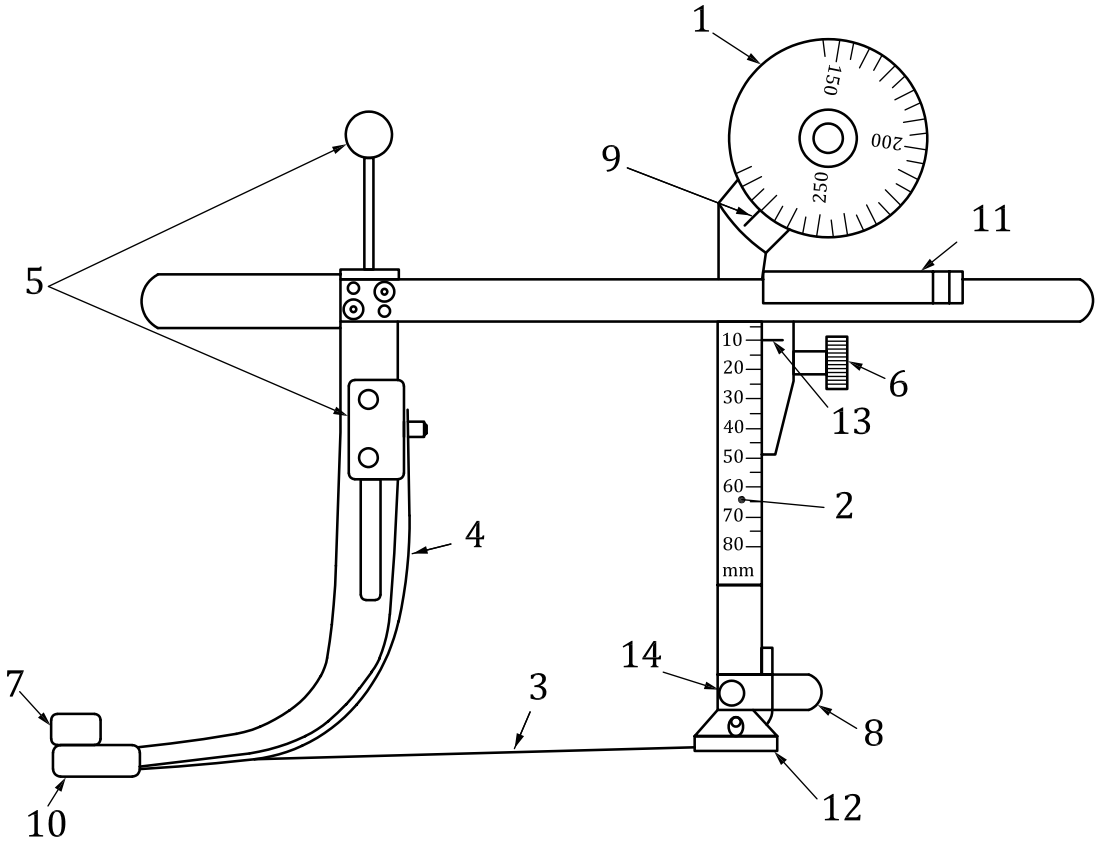
5 Apparatus

The usual laboratory apparatus and, in particular, the following shall be used.

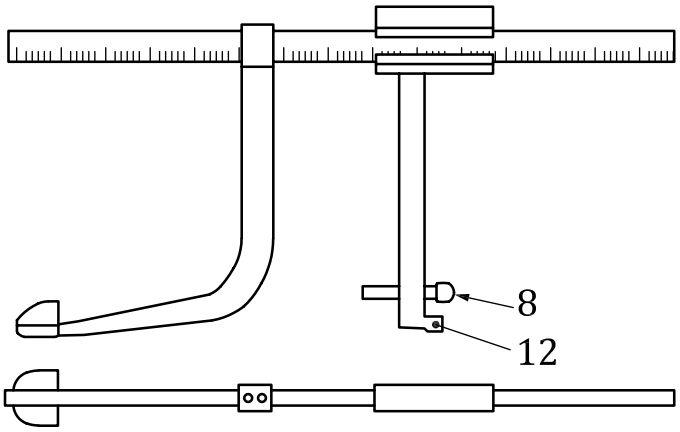
5.1 Length measurement, comprising a toe sensor, a heel sensor and a means of measuring the distance between them along the insole surface, as illustrated in Figure 1 a). Depending on the size and design of the shoes, the appropriate device can be used.

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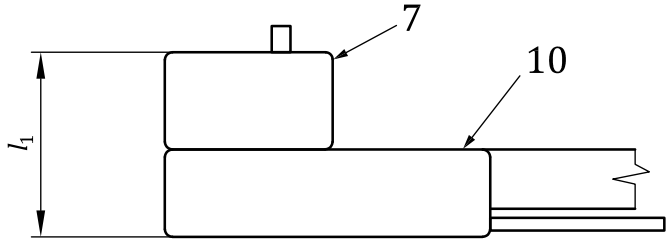
Dimensions in millimetres



a) Example of length measuring device



b) Example of a simplified length measuring device



c) Toe height sensor with toe height piece – Front view

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